hk.	/69% CRF Exers Corrected by th STIC System Branch 0 / / /pg
Serial N	CRF Processing Date: 8/6/97 Edited by:
	Changed a file from non-ASCII to ASCII  Verified by: (STIC staff
	Changed the margins in cases where the sequence text was "wrapped" down to the next line.
	Edited a format error in the Current Application Data section, specifically:
	Edited the Current Application Data section with the actual current number. The number inputted by the applicant was  the prior application data; or other
	Added the mandatory heading and subheadings for "Current Application Data".
	Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
	Changed the spelling of a mandatory field (the headings or subheadings), specifically:
	Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:
	Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:
	Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
	Inserted colons after headings/subheadings. Headings edited included:
	Deleted extra, invalid, headings used by an applicant, specifically:
	Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as
	Inserted mandatory headings, specifically:
	Corrected an obvious error in the response, specifically:
	Edited identifiers where upper case is used but lower case is required, or vice versa.
	Corrected an error in the Number of Sequences field, specifically:
	A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
	Deleted <i>ending</i> stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a Patentin bug). Sequences corrected:
	Other:
	=: the applicant in the first Office

\*Examin r: The abov corrections must b communicated to the applicant in the first Office Action. DO NOT s nd a copy of this form.

### RAW SEQUENCE LISTING PATENT APPLICATION US/09/039,927

DATE: 08/06/1999 TIME: 13:15:03

INPUT SET: S32821.raw

This Raw Listing contains the General Information Section and those Sequences containing ERRORS.

1				SEQUENCE LIS	TING
2					Does Not Comply
3 4	(1) G	eneral Info	rmation:		Corrected Diskette Needed
5 6 7 8	(i)	APPLICANT:	Lester, He Davidson, Kofuji, Pa	Norman	
9 10 11	(ii)			NWARD RECTIFIER UM CHANNELS AND	, G-PROTEIN ACTIVATED, USES THEREOF
12 13	(iii)	NUMBER OF	SEQUENCES:	2	
14 15 16 17 18 19 20 21	(iv)	(B) STREE' (C) CITY: (D) STATE (E) COUNT	SSEE: Flehr	Hohbach Test A arcadero Center sco a	lbritton & Herbert LLP , Suite 3400
22 23 24 25 26 27	(V)	(B) COMPU' (C) OPERA'	M TYPE: Flo TER: IBM PC TING SYSTEM	ppy disk compatible : PC-DOS/MS-DOS	, Version #1.30
28 29 30 31 32	(vi)	(B) FILING		ER: US 09/039,9	27
33 34 35 36	(vii)			ER: US 08/066,3	71
37 38 39 40	(vii)			ER: US 08/614,8	01
41 42 43 44 45	(viii)	(B) REGIS	Trecartin, TRATION NUM	Richard F.	8-1/RFT

#### RAW SEQUENCE LISTING PATENT APPLICATION US/09/039,927

DATE: 08/06/1999 TIME: 13:15:03

INPUT SET: S32821.raw

46	(ix) TELEC	COMMUNICATION INFORMATION:
47	·	TELEPHONE: (415) 781-1989
48	• •	TELEFAX: (415) 398-3249
49	(c)	TELEX: 910 277299
50	, ,	

#### **ERRORED SEQUENCES FOLLOW:**

91

	51	(2) INFORMATION FOR SEQ ID NO:1:
	52	/:) GROVENOR GUADAGMEDIGMIGG.
	53	(i) SEQUENCE CHARACTERISTICS:
>	54	(A) LENGTH: 2076 base pairs (B) TYPE: nucleic acid
	55	
	56	(C) STRANDEDNESS: single
	57	(D) TOPOLOGY: linear
	58	/ii) MOLEGULE MUDE. ADMA
	59	(ii) MOLECULE TYPE: cDNA
	60	(in) DEADUDE.
	61 62	(ix) FEATURE: (A) NAME/KEY: CDS
*	63	(B) LOCATION: 321534
	64	(B) LOCATION: 321334
	65	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
	66	(ix) FEATURE:  (A) NAME/KEY: CDS  (B) LOCATION: 321534  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:  GGCACGAGAA TCTGGATCTC CCCTCCGTAT T ATG TCT GCA CTC CGA AGG AAA  52  Met Ser Ala Leu Arg Arg Lys  1 5
	67	GGCACGAGAA TCTGGATCTC CCCTCCGTAT T ATG TCT GCA CTC CGA AGG AAA
	68	52
	69	Met Ser Ala Leu Arg Arg Lys
	70	1 5
	71	•
	72	TTT GGG GAC GAT TAC CAG GTA GTG ACC ACT TCG TCC AGC GGT TCG GGC
	73	100
	74	Phe Gly Asp Asp Tyr Gln Val Val Thr Thr Ser Ser Ser Gly Ser Gly
	75	10 15 20
	76	
	77	TTG CAG CCC CAG GGG CCA. GGA CAG GGC CCA CAG CAG CAG CTT GTA CCC
	78	148
	79	Leu Gln Pro Gln Gly Pro Gly Gln Gly Pro Gln Gln Gln Leu Val Pro
	80	25 30 35
	81	
	82	AAG AAG AAA CGG CAG CGG TTC GTG GAC AAG AAC GGT CGG TGC AAT GTG
	83	196
	84	Lys Lys Lys Arg Gln Arg Phe Val Asp Lys Asn Gly Arg Cys Asn Val
	85	40 45 50 55
	86	
	87	CAG CAC GGC AAC CTG GGC AGC GAG ACC AGT CGC TAC CTT TCC GAC CTC
	88	244
	89	Gln His Gly Asn Leu Gly Ser Glu Thr Ser Arg Tyr Leu Ser Asp Leu
	90	60 65 70

TTC ACT ACC CTG GTG GAT CTC AAG TGG CGT TGG AAC CTC TTT ATC TTC

DATE: 08/06/1999 TIME: 13:15:04

															I۸	PUT	SET: S	<i>32821</i> .	raw
	93	292																	
	94	Phe	Thr	Thr	Leu	Val	Asp	Leu	Lys	Trp	Arg	Trp	Asn	Leu	Phe	Ile	Phe		
	95				75					80					85				
	96																		
	97	ATC	CTC	ACC	TAC	ACC	GTG	GCC	TGG	CTC	TTC	ATG	GCG	TCC	ATG	TGG	TGG		
	98	340																	
	99	Ile	Leu	Thr	Tyr	Thr	Val	Ala	Trp	Leu	Phe	Met	Ala		Met	Trp	$\mathtt{Trp}$		
	100			90					95					100					
	101			•															
	102		ATC	GCT	TAT	ACC	CGG	GGC	GAC	CTG	AAC	AAA	GCC	CAT	GTC	GGC	AAC		
	103	388			_	<b></b> 1	_	-1	_	•	•	<b>-</b>		**! -		<b>a</b> 1	3		
	104	Val		Ата	Tyr	Thr	Arg	_	Asp	Leu	Asn	Lys		HIS	vaı	GIY	Asn		
	105		105					110					115						
_	106	ma.c	3 CITT	000	mam	ama	000	2 2 171	ama	mam	220	TTC	ccc	m/am	ccc	THE CO	CTT		436
>	1 <b>07</b> 108											Phe							430
	109	120	1111	PIO	Cys	vai	125	ASII	Val	ıyı	ASII	130	FIO	Ser	ALG	FIIC	135		
	110	120					123					130					133		
	111	ጥጥር	ጥጥር	ΔТС	GAG	ACC	GAG	gcc	ACC	ΔТС	GGC	TAT	GGC	TAC	CGC	TAC	ATC		
	112	484	110	A10	Ono	,,,,	0210	-			-		-						
	113		Phe	Ile	Glu	Thr	Glu	Ala	Thr	Ile	Glv	Tyr	Glv	Tyr	Arq	Tyr	Ile		
	114					140					145	- 3 -	2	- 2	,	150			
	115																		
	116	ACC	GAC	AAG	TGC	CCC	GAG	GGC	ATC	ATC	CTT	TTC	CTT	TTC	CAG	TCC	ATC		
	117	532																	
	118	Thr	Asp	Lys	Cys	Pro	Glu	Gly	Ile	Ile	Leu	Phe	Leu	Phe	Gln	Ser	Ile		
	119				155					160					165				
	120																		
	121		GGC	TCC	ATC	GTG	GAC	GCT	TTC	CTC	ATC	GGC	TGC	ATG	TTC	ATC	AAG		
	122	580		_			_		_,	_			_		_,	-1.	•		
	123	Leu	СТĀ		ITe	Val	Asp	Ala		Leu	IIe	Gly	Cys		Pne	тте	ьуs		
	124			170					175					180					
	125 126	N ITIC	maa	a sa	aaa	* * *	8 8 C	ccc	aaa	a a a	אממ	CTC	አጥር	արա	A C C	GAG	ርአጥ		
	127	628	100	CAG	CCC	AAA	AAG	CGC	GCC	GAG	ACC	CIC	AIG	111	AGC	GAG	CAI		
	128		Ser	Gln	Pro	T.VS	T.vs	Δra	Δla	Glu	Thr	Leu	Met	Phe	Ser	Glu	His		
	129	1100	185	·		_,_	_,_	190					195						
	130																		
	131	GCG	GTT	ATT	TCC	ATG	AGG	GAC	GGA	AAA	CTC	ACT	CTC	ATG	TTC	CGG	GTG		
	132	676																	
	133	Ala	Val	Ile	Ser	Met	Arg	Asp	Gly	Lys	Leu	Thr	Leu	Met	Phe	Arg	Val		
	134	200					205					210					215		
	135																		
	136		AAC	CTG	CGC	AAC	AGC	CAC	ATG	GTC	TCC	GCG	CAG	ATC	CGC	TGC	AAG		
	137	724									_				_		_		
	138	Gly	Asn	Leu	Arg		Ser	His	Met	Val		Ala	GIn	тте	Arg		гàг		
	139					220					225					230			
	140	ama	ama		mar	aaa	ar a	202	aam	0.00	oom.	ara.	mam	OM N	aaa	CIMIT	ana		
	141		CTC	AAA	TÇT	CGG	CAG	ACA	CCT	GAG	GG.I,	GAG	TTT	CTA	CCC	CTT	GAC		
	142	772	T 011	T ***	g^~	λ ~ ~	ر م ای	መት ~	Dra	ربالي. ديالي	را بر را ا	Glu	Dha	T. 211	Pro	וום.Т	Aen		
	143 144	red	Leu	гур	235	Ary	GIII	TILL	FIO	240	сту	GIU	FIIG	neu	245	neu	vsħ		
	144				233					240					2.43				
	143																		

DATE: 08/06/1999 TIME: 13:15:04

															11 01	
146		CTT	GAA	CTG	GAT	GTA	GGT	TTT	AGT	ACA	GGG	GCA	GAT	CAA	CTT	TTT
147	820		<b></b>		•	••- •	<b>~1</b>	-1	<b>~</b>	m\	<b>~</b> 1		•	a1		Dh.
148	GIN	Leu		Leu	Asp	vaı	GTA		ser	Thr	GIÀ	АТа	_	GIN	Leu	Phe
149			250					255					260			
150	amm	ama	maa	aam	ama	3.00	a mm	maa	<b>GNG</b>	аша	» ma	C A III	aaa		<b>3</b> CC	000
151		GTG	TCC	CCT	CTC	ACC	ATT	TGC	CAC	GTG	ATC	GAT	GCC	AAA	AGC	CCC
152 153	868	17.03	Cor	nwa	T 011	mb ×	T10	C	uic	บลา	Tla	X ~~	<b>7</b> 1 2	T 170	Cor	Dro
	Leu		Ser	PIO	ren	1111	270	СуБ	птэ	Vат	116	275	АТА	гуз	Set	FIU
154 155		265					210					213				
156	արար	ידאיד	GAC	СПА	ጥሮሮ	CAG	CGA	ΔGC	ልጥር	CAA	ልረጥ	GΔΔ	CAG	ጥጥሮ	GAG	GTG
157	916	171	OAC	CIA	100	CAO	COR	AUC	7.0	Onn	no.	Onn	Ono	-10	ono	0.0
158		Tvr	Asp	Leu	Ser	Gln	Ara	Ser	Met	Gln	Thr	Glu	Gln	Phe	Glu	Val
159	280	-1-	P			285	9				290					295
160	200															
161	GTC	GTC	ATC	CTG	GAA	GGC	ATC	GTG	GAA	ACC	ACA	GGG	ATG	ACT	TGT	CAA
162	964															
163	Val	Val	Ile	Leu	Glu	Gly	Ile	٧al	Glu	Thr	Thr	Gly	Met	Thr	Cys	Gln
164					300	-				305		_			310	
165																
166	GCT	CGA	ACA	TCA	TAC	ACC	GAA	GAT	GAA	GTT	CTT	TGG	GGT	CAT	CGT	TTT
167	1012	2														
168	Ala	Arg	Thr	Ser	Tyr	Thr	Glu	Asp	Glu	Val	Leu	Trp	Gly	His	Arg	Phe
169				315					320					325		
170																
171			GTA	ATT	TCT	TTA	GAA	GAA	GGA	TTC	TTT	AAA	GTC	GAT	TAC	TCC
172	1060											_		_	_	
173	Phe	Pro	Val	Ile	Ser	Leu	Glu		Gly	Phe	Phe	Lys		Asp	Tyr	Ser
174			330					335					340			
175	~.~					-			~~~		aam		m > a		ama	
176			CAT	GCA	ACC	TTT	GAA	GTC	CCC	ACC	CCT	CCG	TAC	AGT	GTG	AAA
177	1108		His	210	mh =	Dho	a1	Wal	Dro	mb ×	Dro	Dro	Trans.	Cor	Wal	T 175
178 179	GIII	345	итр	Ата	THE	Pne	350	Val	PIO	1111	PIO	355	ıyı	per	νат	гуз
180		343					330					333				
181	GAG	CAG	GAA	GAA	Δጥር	Стт	СТС	ΔТС	ጥርጥ	TCC	ССТ	מייים	АТА	GCA	CCA	GCC
182	1156		OAA	OAA	AIO		010	AI O			-		*****	00	••••	-
183			Glu	Glu	Met	Leu	Leu	Met	Ser	Ser	Pro	Leu	Ile	Ala	Pro	Ala
184	360					365					370					375
185																
186	ATA	ACC	AAC	AGC	AAA	GAA	AGA	CAC	AAT	TCT	GTG	GAG	TGC	TTA	GAT	GGA
187	1204	Į														
188	Ile	Thr	Asn	Ser	Lys	Glu	Arg	His	Asn	Ser	Val	Glu	Cys	Leu	Asp	Gly
189					380					385					390	
190																
191	CTA	GAT	GAC	ATT	AGC	ACA	AAA	CTT	CCA	TCG	AAG	CTG	CAG	AAA	ATT	ACG
192	1252												_		_	
193	Leu	Asp	Asp		Ser	Thr	Lys	Leu	Pro	Ser	Lys	Leu	Gln	-	Ile	Thr
194				395					400					405		
195																
196			GAA	GAC	TTT	CCC	AAA	AAA	CTC	CTG	AGG	ATG	AGT	TCT	ACA	ACT
197	1300		a 3		<b>51</b>	D-	<b>.</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>3</b>	14 - L	CI =	a	m\	ար
198	СΤĀ	arg	GIU	Asp	rne	Pro	гÀг	ьys	ьeu	ьeu	arg	мет	ser	ser	THE	Thr

### RAW SEQUENCE LISTING PATENT APPLICATION US/09/039,927

DATE: 08/06/1999 TIME: 13:15:04

															IN	PUT	SET: S	32821	.raw
	199			410					415					420					
	200																		
	201	тсδ	GAA	ΔΔΔ	GCC	тΔт	AGT	TTG	GGT	GAT	TTG	ccc	ATG	AAA	CTC	CAA	CGA		
	202	1348			•••														
	203			T.vs	Ala	Tur	Ser	T.eu	Glv	Asp	T.eu	Pro	Met	Lvs	Leu	Gln	Ara		
	204	DCI	425	БуС	******	- 7 -	501	430	01,				435	-1-			9		
	205		423										100						
	206	א ידי א	λОΨ	TO C	GTT	CCT	aac	A A C	ሞርሞ	CAA	GAA	ΔΔΔ	СТС	СПΑ	ጥርጥ	ΔΔΔ	ACC		
	207	1396		100	G11	CCI	GGC	AAC	101	UAA	UAA	AAA	010	OIA	101	AAA	ACC		
	207			gar	Val	Dro	Gl v	Acn	Sor	alu.	G111	Luc	LAU	Val	Sar	T.ve	Thr		
	209	440	Ser	Ser	νат	PIO	445	ASII	Ser	GIU	GIU	450	пеа	Val	Jer	цур	455		
	210	440					447					430					433		
	211	300	2 2 7	N TO C	TTA	TIC N	CATE	CCC	λTC	N.C.C	CAG	ጥረጥ	GTG.	GCC	CAT	ጥጥር	CCA		
	211			AIG	IIA	ICA	GAI	CCC	AIG	AGC	CAG	101	010	GCC	GAI	110	CCA		
	212	1444		Wa+	Leu	Cor	A co	Bro	No+	Cor	Gl n	Sor	Val	λla	λen	T 611	Dro		
		THE	rys	Met	ьeu	460	ASP	PIU	Mec	Ser	465	Ser	Val	AIG	ASP	470	FIO		
	214 215					400					405					470			
		000	220	amm	CAA	***	a ma	aam	aa s	003	COM	300	300	N THE	CAA	aca	አአጥ		
	216	1492		CTT	CAA	AAG	ATG	GCT	GGA	GGA	CCI	ACC	AGG	AIG	GAA	GGG	AAI		
	217			T 011	<b>41</b> m	T ***	Wa+	A 1 a	a1	al.,	Dro	Thr.	λra	Mot	<i>α</i> 311	al v	Nen		
	218	Pro	гаг	Leu	Gln	гåг	мес	ATG	GTA	_	PIO	1111	Arg	Mec	485	СТУ	ASII		
	219				475					480					403				
_	220	amm	~~*	-	AAA	CITI N	202		8 M/M	220	mam	asa	aaa	mm/C	202				1534
>	221								_										T334
	222	Leu	Pro		Lys	Leu	Arg	гаг		ASII	Ser	ASP	Arg	500	1111				
	223			490					495					500					
	224	<b>ma</b> 00			aaaa,	mm s c			nmma i	man	nmmm	חחגר	magn	nmmm z	\ am				
_	225				CCCCI		iG Cr	ATTAT	TTC	1 1'G'	LITIC	3A'1'1	TAG		101				
>	226	CCAA	YTAT'	rrG	15	94													
	227	aama				amaa	10 00	1003	N M CI		3 2 2 2	пата	шааа	3 A CITIC	ma				
	228				TAATO		:C CC	iGGA <i>F</i>	AATC	GAC	aAGG".	PCTA	TCCC	AGT	TG				
>	229	GCAA	ATT	CAT	10	554													
	230	a.a.		ama i	mma s n	max x	. с. п.с	mman	om a con		ישתר		mes a c	א חוחי	4 7 7				
	231				TTCAT		ic re	511G1	TAC.	GIC	31168	AACA	IGAC	) I I A	-AA				
>	232	AGGG	AGG	ACA	1.	714													
	233	ma a n	1220		aam s z	. m » 🗸 n	m aa	10 A III 0	am a mr	n ame	72025	T (	CCN	מממאז	A ITT A				
	234				GCTA!		. I GC	CAIC	JIAI.	AIC	JACA.	LCAA	GCA	GCA	11A				
>	<b>235</b> 236	ATGT	GCA	MI	1.	774													
	236	mmme	1/13/000	. גיחו	GTTTI	nama.	ית אח	חרת א חדים	יים אים חי	י אידי	ומממו	יייאייי	חיתי אים	יים א מיים א	גגי				
							C A	GAI	LIMIA	A IA	GGC	AIMI	IIA	MIIC	MA				
>	238	TATI	CTGC	MA	TS	334													
	239	2 2 2 1	120120		* m * m ;		.m az	, a come	10101		птете	7000	2012	mmme	א חוד				
>	240				ATATA		I G	AAGIC	GAG	1 IA	rici		AIA	1111	.IA				
>	241	ATAT	AIG	IAT	10	394													
	242	maxo	1002		ATGAC	maai	n s	ימששי	7020	י ממי	יגיייט	חגגו	א א חוי	יייאריי	ישיי				
	243						T. AC	oC TTI	CAGC	J GCF	ACTA	AAAT	AAII	TACE	110				
>	244	CATA	CATA	4CA	13	54													
	245	m x 🕾 s	maa:	י אותו	TICO NO	12012	13 47	ייאחו	ימאמי		በ አ /ጘጥ/	א חוו א ר	mama	יגגידו	\ A.C				
_	246				TGCAC		A CA	TAC	ACACA	A CA'	ACT'	JATA	TATI	ATAAA	AAC				
>	247	ATAC	CCA	rac	2(	14													
	248				n maari			mman	101 x m2	n mm	nmerre	n	***						
	249				ATCT!		AA AA	1 T G I	GAT	a 1"1"l	LIGI".	LCAA	AAAA	AAAAA	AAA				
>	250	AAAA	AACT	CG	2(	74													
	251																		

# RAW SEQUENCE LISTING PATENT APPLICATION US/09/039,927

DATE: 08/06/1999 TIME: 13:15:05

INPUT SET: S32821.raw

252 AG 253

254

2076

### **SEQUENCE VERIFICATION REPORT** PATENT APPLICATION *US/09/039,927*

DATE: 08/06/1999 TIME: 13:15:05

Line	Error	Original Text
54	Entered (2076) and Calc. Seq. Length (182) differ	(A) LENGTH: 2076 base pairs
107	# of Sequences for line conflicts w/ running total	TAC ACT CCC TGT GTG GCC AAT GTC TAT AAC TTC
221	# of Sequences for line conflicts w/ running total	CTT CCA GCC AAA CTA AGA AAA ATG AAC TCT GA
226	# of Sequences for line conflicts w/ running total	CCAATATTTG 1594
229	# of Sequences for line conflicts w/ running total	GCAAATTCAT 1654
232	# of Sequences for line conflicts w/ running total	AGGGAGGACA 1714
235	# of Sequences for line conflicts w/ running total	ATGTGCAAAT 1774
238	# of Sequences for line conflicts w/ running total	TATTCTGGAA 1834
241	# of Sequences for line conflicts w/ running total	ATATATGTAT 1894
244	# of Sequences for line conflicts w/ running total	CATACATACA 1954
247	# of Sequences for line conflicts w/ running total	ATACCCATAC 2014
250	# of Sequences for line conflicts w/ running total	AAAAACTCG 2074

DATE: 08/06/1999 TIME: 18:23:32

INPUT SET: S32821.raw

This Raw Listing contains the General Information Section and up to the first 5 pages.

1		SEQUENCE LISTING
2		an anal Tu Cannakian
3 4	(1) G	eneral Information:
5 6 7 8	(i)	eneral Information:  APPLICANT: Lester, Henry A.  Davidson, Norman  Kofuji, Paulo
9 10 11	(ii)	TITLE OF INVENTION: INWARD RECTIFIER, G-PROTEIN ACTIVATED, MAMMALIAN, POTASSIUM CHANNELS AND USES THEREOF
12 13	(iii)	NUMBER OF SEQUENCES: 2
14 15 16	(iv)	CORRESPONDENCE ADDRESS:  (A) ADDRESSEE: Flehr Hohbach Test Albritton & Herbert LLP  (B) STREET: Four Embarcadero Center, Suite 3400
17 18 19		<ul><li>(C) CITY: San Francisco</li><li>(D) STATE: California</li><li>(E) COUNTRY: United States</li></ul>
20 21		(F) ZIP: 94111-4187
22 23 24 25 26	(♥)	COMPUTER READABLE FORM:  (A) MEDIUM TYPE: Floppy disk  (B) COMPUTER: IBM PC compatible  (C) OPERATING SYSTEM: PC-DOS/MS-DOS  (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
27 28 29 30 31 32	(vi)	CURRENT APPLICATION DATA:  (A) APPLICATION NUMBER: US 09/039,927  (B) FILING DATE: 16-MAR-1998  (C) CLASSIFICATION:
33 34 35 36	(vii)	PRIOR APPLICATION DATA:  (A) APPLICATION NUMBER: US 08/066,371  (B) FILING DATE: 21-MAR-1993
37 38 39 40	(vii)	PRIOR APPLICATION DATA:  (A) APPLICATION NUMBER: US 08/614,801  (B) FILING DATE: 07-MAR-1996
41 42 43 44	(viii)	ATTORNEY/AGENT INFORMATION:  (A) NAME: Trecartin, Richard F.  (B) REGISTRATION NUMBER: 31,801  (C) REFERENCE/DOCKET NUMBER: A-63098-1/RFT
45 46	(ix)	TELECOMMUNICATION INFORMATION:

INPIIT SET: S32821.raw

DATE: 08/06/1999

TIME: 18:23:32

														II	<b>VPUT</b>	SET:	S32821.
47			( /	A) T	ELEP	HONE	: (4	15)-	781-	1989							
48			(1	B) T	ELEF.	AX:	(415	) 39	8-32	49							
49			(1	C) T	ELEX	: 91	0 27	7299								•	
50																	
51	(2)	INF	ORMA'	rion	FOR	SEQ	ID 1	NO:1	:								
52			. ~-		~ ~		~===	T									
53		(1	•	_		HARA											
54			•	•		H: 2			-	rs							
55 56			•	-		nuc: DEDNI											
57			•	•		OGY:			gre								
58			١.	, .	01 01			cul									
59		(ii	) MO	LECU	LE T	YPE:	cDN.	A									
60		`	,														
61		(ix	) FE	ATUR	E:												
62		·	(2	A) N	AME/	KEY:	CDS										
63			(1	B) L	OCAT:	ION:	32.	.153	4								
64																	
65		(xi	) SE	QUEN	CE D	ESCR:	IPTI	ON:	SEQ	ID N	0:1:						
66																	
67	GGC.	ACGA	GAA '	rctg(	GATC	rc c	CCTC	CGTA'									52
68											ser.	ата .	Leu .	Arg /	arg .	ьys	
69 70										1				5			
70 71	արարա	ccc	GAC	ር እጥ	መልሮ	CAG	ста	ата	ACC.	λСΨ	ጥርር	TCC	N.C.C	CCT	ሞሮር	aac	100
72						Gln											100
73	1110	OLY	10	rsp	- 7 -	0111	*4.	15	****	****	DCI	501	20	OL,	501	O.L.y	
74			- •														
75	TTG	CAG	CCC	CAG	GGG	CCA	GGA	CAG	GGC	CCA	CAG	CAG	CAG	CTT	GTA	CCC	148
76	Leu	Gln	Pro	Gln	Gly	Pro	Gly	Gln	Gly	Pro	Gln	Gln	Gln	Leu	Val	Pro	
77		25			_		30		_			35					
78																	
79						CGG											196
80	_	Lys	Lys	Arg	Gln	Arg	Phe	Val	Asp	Lys		Gly	Arg	Cys	Asn		
81	40					45					50					55	
82	a. a	~~~	~~~						1.00	1 am	~~~	m. a	omm.	maa	a.a	ата	244
83						GGC											244
84 85	GIN	HIS	GIY	ASII	60 Leu	Gly	Ser	GIU	THE	65	Arg	Tyr	reu	Ser	70	геа	
86					00					0.5					, 0		
87	ጥጥሮ	ΔСТ	ACC	CTG	GTG	GAT	СТС	ΔAG	TGG	CGT	TGG	AAC	стс	արդ	АТС	ттс	292
88						Asp											272
89				75		E		-1-	80	5				85			
90																	
91	ATC	CTC	ACC	TAC	ACC	GTG	GCC	TGG	CTC	TTC	ATG	GCG	TCC	ATG	TGG	TGG	340
92						Val											
93			90					95					100				
94																	
95						CGG											388
96	Val		Ala	Tyr	Thr	Arg		Asp	Leu	Asn	Lys		His	Val	Gly	Asn	
97		105					110					115					
98	ma c	a com	000	mææ	ama	acc	3 3 m	ama.	(I) x (II)	A A ~	mma	000	mar	000	mma	amm.	126
99	TAC	ACT	CCC	TGT	GTG	GCC	AAT'	GTC	TAT	AAC	TTC	CCC	TCT	GCC	TTC	CTT	436

DATE: 08/06/1999 TIME: 18:23:33

														II.	<b>VPUT</b>	SET:	S32821.ran
100	Tyr	Thr	Pro	Cys	Val	Ala	Asn	Val	Tyr	Asn	Phe	Pro	Ser	Ala	Phe	Leu	
101	120					125					130					135	
102																	
103					ACC												484
104	Phe	Phe	Ile	Glu	Thr	Glu	Ala	Thr	Ile	Gly	Tyr	Gly	Tyr	Arg	Tyr	Ile	
105					140					145					150		
106																	
107					CCC												532
108	Thr	Asp	Lys	Cys	Pro	Glu	Gly	Ile	Ile	Leu	Phe	Leu	Phe	Gln	Ser	Ile	
109				155					160					165			
110																	
111					GTG												580
112	Leu	Gly	Ser	Ile	Val	Asp	Ala	Phe	Leu	Ile	Gly	Cys	Met	Phe	Ile	Lys	
113		_	170					175					180				
114																	
115	ATG	TCC	CAG	CCC	AAA	AAG	CGC	GCC	GAG	ACC	CTC	ATG	TTT	AGC	GAG	CAT	628
116	Met	Ser	Gln	Pro	Lys	Lys	Arg	Ala	Glu	Thr	Leu	Met	Phe	Ser	Glu	His	
117		185			_	_	190					195					
118																	
119	GCG	GTT	ATT	TCC	ATG	AGG	GAC	GGA	AAA	CTC	ACT	CTC	ATG	TTC	CGG	GTG	676
120	Ala	Val	Ile	Ser	Met	Arg	Asp	Gly	Lys	Leu	Thr	Leu	Met	Phe	Arg	Val	
121	200					205	_	_			210					215	
122																	•
123	GGC	AAC	CTG	CGC	AAC	AGC	CAC	ATG	GTC	TCC	GCG	CAG	ATC	CGC	TGC	AAG	724
124	Gly	Asn	Leu	Arg	Asn	Ser	His	Met	Val	Ser	Ala	Gln	Ile	Arg	Cys	Lys	
125	_			_	220					225				_	230	_	
126																	•
127	CTG	CTC	AAA	TCT	CGG	CAG	ACA	CCT	GAG	GGT	GAG	TTT	CTA	CCC	CTT	GAC	772
128	Leu	Leu	Lys	Ser	Arg	Gln	Thr	Pro	Glu	Gly	Glu	Phe	Leu	Pro	Leu	Asp	
129			_	235	_				240	_				245			
130																	
131	CAA	CTT	GAA	CTG	GAT	GTA	GGT	TTT	AGT	ACA	GGG	GCA	GAT	CAA	CTT	TTT	820
132	Gln	Leu	Glu	Leu	Asp	Val	Gly	Phe	Ser	Thr	Gly	Ala	Asp	Gln	Leu	Phe	
133			250					255					260				
134																	
135	CTT	GTG	TCC	CCT	CTC	ACC	ATT	TGC	CAC	GTG	ATC	GAT	GCC	AAA	AGC	CCC	868
136	Leu	Val	Ser	Pro	Leu	Thr	Ile	Cys	His	Val	Ile	Asp	Ala	Lys	Ser	Pro	
137		265					270					275					
138																	
139					TCC												916
140	Phe	Tyr	Asp	Leu	Ser	Gln	Arg	Ser	Met	Gln	Thr	Glu	Gln	Phe	Glu	Val	
141	280					285					290					295	
142																	
143					GAA												964
144	Val	Val	Ile	Leu	Glu	Gly	Ile	Val	Glu	Thr	Thr	Gly	Met	Thr	Cys	Gln	
145					300					305					310		
146																	
147					TAC												1012
148	Ala	Arg	Thr	Ser	Tyr	Thr	Glu	Asp	Glu	Val	Leu	Trp	Gly	His	Arg	Phe	
149				315					320					325			
150										•							
151					TCT												1060
152	Phe	Pro	Val	Ile	Ser	Leu	Glu	Glu	Gly	Phe	Phe	Lys	Val	Asp	Tyr	Ser	

### RAW SEQUENCE LISTING PATENT APPLICATION US/09/039,927

INPUT SET: S32821.raw

DATE: 08/06/1999

TIME: 18:23:33

														11	NPUT	SET: S	532821	.raw
153			330					335					340					
154																		
155	CAG	TTC	САТ	GCA	ACC	ጥጥጥ	GAA	GTC	ccc	ACC	CCT	CCG	TAC	AGT	GTG	AAA	1108	3
156															Val			
157	<b>411</b>	345	****	,,,,,			350					355	- 7 -			-1-		
		343					J J 0					555						
158	a.a	~~~	<i>a</i>	<i>a</i>	» ma	amm	ата	» ma	mam	maa	aam	mm x	אידוא	CCA	CCA	aac	1156	:
159															CCA		1136	•
160		GIn	GLU	GTŪ	мет		Leu	мет	ser	ser		Leu	тте	Ата	Pro			
161	360					365					370					375		
162																		_
163															GAT		1204	<u> </u>
164	Ile	Thr	Asn	Ser	Lys	Glu	Arg	His	Asn	Ser	Val	Glu	Cys	Leu	Asp	Gly		
165					380					385					390			
166																		
167	CTA	GAT	GAC	ATT	AGC	ACA	AAA	CTT	CCA	TCG	AAG	CTG	CAG	AAA	ATT	ACG	1252	2
168	Leu	Asp	Asp	Ile	Ser	Thr	Lvs	Leu	Pro	Ser	Lys	Leu	Gln	Lys	Ile	Thr		
169		_	_	395			-		400		-			405				
170																		
171	GGG <sup>2</sup>	AGA	GAA	GAC	սերգեր	CCC	ΔΔΔ	ΔΔΔ	СТС	CTG	AGG	ATG	AGT	тст	ACA	ACT	1300	)
172															Thr			
173	GLY	Arg	410	ASP	1110	110	Буб	415	DCG	пса	n. g	.100	420	501				
			410					413					720					
174	ma.	~		999	m > m	3 Cm	mma	aam	C A III	mma	000	3 000		СШС	C 2 2	CGA	1348	,
175															_		1340	,
176	ser		ьўs	Ата	туг	ser		GLY	Asp	Leu	Pro		гуя	Leu	Gln	Arg		
177		425					430					435						
178																		_
179															AAA		1396	•
180	Ile	Ser	Ser	Val	Pro	Gly	Asn	Ser	Glu	Glu	Lys	Leu	Val	Ser	Lys			
181	440					445					450					455		
182																		
183	ACC	AAG	ATG	TTA	TCA	GAT	CCC	ATG	AGC	CAG	TCT	GTG	GCC	GAT	TTG	CCA	1444	<u>l</u>
184	Thr	Lys	Met	Leu	Ser	Asp	Pro	Met	Ser	Gln	Ser	Val	Ala	Asp	Leu	Pro		
185		_			460	_				465					470			
186																		
187	CCG	AAG	CTT	CAA	AAG	ATG	GCT	GGA	GGA	CCT	ACC	AGG	ATG	GAA	GGG	AAT	1492	2
188															Gly			
189		-1-		475	-4				480			,		485	-			
190				- / -														
191	CTTTT	CCA	acc	ΔΔΔ	СПУ	AGA	ΔΔΔ	ATG	AAC	ጥርጥ	GAC	CGC	ттс	ACA			1534	1
192								Met										-
193	пеа	FIO	490	Lys	пеа	n. g	цуБ	495	AD.	DCI	nop	n-9	500					
194			490					4/3					300					
	m 3 0/	~~~~		7000	a mm a /	aa a	a mm a r	nmma	N MOI	nmmm	מוח ג ר	ma or	rana :	A (7111)	ממא אר	TTTAT	ıc.	1594
195	TAG	JAAA	ACA (		ATTA	3G C	ATTA.	TTC	4 16.	1111,	JA I I	IAG	1 1 1 1 2	401 (	CCAA.	LAIII	G	1334
196	acm	- 2 m		na 2004	70EC	70 0	1002	1 3 m~r	n (13.4	יא מימי	nam »	maa	7 X (2007)	משני י		mma ×	TT.	1654
197	GCT(	A'I'A	AGA '	LAA.I.(	JUTU	JU U	JGGA	AATC'	r GA(	JAGG'	ICTA	TCC	JAGT'	-1'G (	GUAAA	ATTCA	. 1	1654
198											~ -	m~-		~				1711
199	CAG	AGGA	CTC '	rTCA'	r'rGA	AG T	J'I''FG'	I'I'AC'	r GT(	T'I'G <i>I</i>	AACA	TGA	T'I'A(	JAA A	AGGG	AGGAC	A	1714
200															·_		_	
201	TCA	raag.	AAA (	GCTA	ATAG'	rt go	GCAT(	GTAT'	r ate	CACA'	<b>TCAA</b>	GCA'	rgca <i>i</i>	ATA .	ATGT	GCAAA	T	1774
202			•															
203	TTTC	GCAT'	TTA (	GTTT'	rctg	GC A	rgat'	TATI	A TA	rggc/	TATA	TTA	TATT(	GAA '	TATTO	CTGGA	.A	1834
204																		*
205	AAA	'ATA	TAA A	ATATA	ATAT	rt G	AAGT	GGAG	A TA	rtct(	CCCC	ATA	ATTT	CTA A	ATATA	ATGTA	T	1894
		_																

# RAW SEQUENCE LISTING PATENT APPLICATION US/09/039,927

DATE: 08/06/1999 TIME: 18:23:34

														#1	VFUI	SEI. SS	2021.1UW
206 207	TAAG	BCCA	AAC A	ATGA	GTGG	AT A	3CTT	rcag(	g gc	ACTA	TAAA	AAT	ATAC	ATG (	CATA	CATACA	1954
208 209 210																2014	
211 212	AAA	CATA'	TAT A	ATCT	AATA	AA AA	ATTG:	rgat(	3 TT	rtgt'	rcaa	AAA	AAAA	AAA .	AAAA	AACTCG	2074
213	AG														2076		
214																	
215	(2)	(2) INFORMATION FOR SEQ ID NO:2:															
216 217	(2)	TNE	JKMA.	ITON	FOR	SEQ	י עד	NO.Z	•								
218	(i) SEQUENCE CHARACTERISTICS:																
219	(A) LENGTH: 501 amino acids																
220	(B) TYPE: amino acid																
221	(D) TOPOLOGY: linear																
222 223	(ii) MOLECULE TYPE: protein																
223	(11) MOLECULE TYPE: protein																
225		( :	xi) :	SEQUI	ENCE	DES	CRIP	rion	: SE	Q ID	NO:	2:					
226		•	•														
227		Ser	Ala	Leu	Arg	Arg	Lys	Phe	Gly	_	Asp	Tyr	Gln	Val	Val	Thr	
228	1				5					10					15		
229 230	Thr	Sor	Sar	Sor	വിയ	Sor	αlυ	T. (2) 1	al n	Pro	Gln	αlv	Pro	G] v	Gln	Glv	
231	1111	261	Ser	20	GLY	Ser	GLY	Бец	25	110	OIII	OLY	110	30	01		
232																	
233	Pro	Gln	Gln	Gln	Leu	Val	Pro	Lys	Lys	Lys	Arg	Gln	Arg	Phe	Val	Asp	
234			35					40					45				
235	_	_		_	_	_		~ 7		a1		<b>-</b>	a1	<b>~</b>	<b>a</b> 1	m\	
236 237	ьуs	Asn 50	GTĀ	Arg	cys	ASN	781 55	GIN	HIS	GTA	ASN	Leu 60	сту	ser	Glu	THE	
237		30					33					00					
239	Ser	Arg	Tyr	Leu	Ser	Asp	Leu	Phe	Thr	Thr	Leu	Val	Asp	Leu	Lys	Trp	
240	65	_	_			70					75					80	
241									_		_				_	_	
242	Arg	Trp	Asn	Leu		Ile	Phe	IIe	Leu	Thr 90	Tyr	Thr	vaı	АТа	Trp 95	Leu	
243 244					85					90					93		
245	Phe	Met	Ala	Ser	Met	Trp	Trp	Val	Ile	Ala	Tyr	Thr	Arg	Gly	Asp	Leu	
246				100		-	•		105		_			110	_		
247												_	_		_		
248	Asn	Lys		His	Val	Gly	Asn		Thr	Pro	Cys	Val		Asn	Val	Tyr	
249 250			115					120					125				
250 251																	
252	Asn	Phe	Pro	Ser	Ala	Phe	Leu	Phe	Phe	Ile	Glu	Thr	Glu	Ala	Thr	Ile	
253		130					135			•		140					
254	<b>-</b>	_		_	_	_		_,	_	_	<b></b>	_	a1	a.1	<b>-</b> 7 -	<b>T</b> 1.	
255		Tyr	GTÀ	Tyr	Arg		тте	Tnr	Asp	Lys		Pro	GIU	стλ	Ile	11e	
256 257	145					150					155					100	
258	Leu	Phe	Leu	Phe	Gln	Ser	Ile	Leu	Gly	Ser	Ile	Val	Asp	Ala	Phe	Leu	
_									4				-				

DATE: 08/06/1999 TIME: 18:23:34

INPUT SET: S32821.raw

#### \*\*\*\*\* PREVIOUSLY ERRORED SEQUENCES - EDITED \*\*\*\*\*

51	(2)	INF	ORMAT	rion	FOR	SEQ	ID 1	NO:1:	:								
52 53 54 55 56 57 58	(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear																
59 60	•																
61 62 63 64	(ix) FEATURE: (A) NAME/KEY: CDS (B) LOCATION: 321534																
65																	
67 68 69 70	GGC1	ACGA	GAA 7	rctg(	GATC?	rc co	CCTC	CGTAT							AGG A		52
71 72 73															TCG Ser		100
74 75 76 77 78															GTA Val		148
79 80 81 82															AAT Asn		196
83 84 85 86															GAC Asp 70		244
87 . 88 89 90															ATC Ile		292
91 92 93 94															TGG Trp		340
95 96 97															GGC Gly		388

INPUT SET: S32821.raw

DATE: 08/06/1999 TIME: 18:23:34

														II	VPUI	SEI:	532821.FC
98	maa	s am	000	mam	ama	GCC	3 3 m	ama	mam	330	mma	aaa	mam.	aaa	mmc.	C TPTT	436
99						Ala											430
100	_	THE	PIO	Cys	vaı	125	ASII	vaı	TAT	ASII	130	PIO	Ser	нта	FILE	135	
101 102	120					123					130					133	
	mma	mma	N III CI	ava	3.00	GAG	000	N.C.C	N TO C	aaa	TT A ITT	ccc	TD A CT	aaa	ייי א כי	አሞሮ	484
103						Glu											404
104	Pne	Pne	TTE	GIU	140	GIU	Ата	1111	TTE	145	ıyı	сту	ıyı	Arg	150	116	
105		•			140					143		٠			130		
106 107	N.C.C	CAC	330	TOO	ccc	GAG	ccc	አሞሮ	አሞሮ	СФФ	ጥጥር	Сфф	ጥጥረ	CAG	שככ	λπс	532
107						Glu											332
108	1111	мар	цуз	155	110	GIU	СТУ	116	160	пеа	1110	Бец	1110	165	SCI	110	
110				133					100					103			
111	CTPTP	aaa	TOO	איזירי	aтa	GAC	CCT	ጥሞረ	כיזיכ	λΤС	aac	TCC	ΔТС	ጥጥር	ΔΤΙС	AAG	580
112						Asp											300
112	neu	GTÅ	170	116	VOI	изъ	AIG	175	БСС	110	O <sub>T</sub> y	Cys	180	1110	110	2,5	
114			1/0					1,5					100				
114	እጥር	ሞሮሮ	CAG	כככ	λλλ	AAG	cac	GCC	GAG	ACC	כידיכי	ΔТС	արդա	AGC	GAG	САТ	628
116						Lys											020
117	мес	185	GIII	110	цуз	БУЗ	190	AT.	OIG	1111	ЦСС	195		501	014	1110	
118		103					170										
119	GCG	CTT	ልጥጥ	TCC	ΔТС	AGG	GAC	GGA	ΔΔΔ	СТС	ΔСТ	стс	ΔТС	ጥጥር	CGG	GTG	676
120						Arg											0,0
121	200	Vai	116	DCI	MC C	205	ADP	017	<b>5</b> ,5	200	210				9	215	
122	200					203											
123	gge	ΔAC	СТС	CGC	AAC	AGC	CAC	ATG	GTC	TCC	GCG	CAG	ATC	CGC	TGC	AAG	724
124						Ser											
125	O.L. J				220					225	•			5	230	-1-	
126																	
127	СТС	стс	ΔΔΔ	тст	CGG	CAG	ACA	CCT	GAG	GGT	GAG	ттт	СТА	CCC	CTT	GAC	772
128						Gln											
129			-1-	235	5				240	2				245		-	
130																	
131	CAA	CTT	GAA	CTG	GAT	GTA	GGT	TTT	AGT	ACA	GGG	GCA	GAT	CAA	CTT	TTT	820
132						Val											
133			250		-		-	255			_		260				
134																	
135	CTT	GTG	TCC	CCT	CTC	ACC	ATT	TGC	CAC	GTG	ATC	GAT	GCC	AAA	AGC	CCC	868
136	Leu	Val	Ser	Pro	Leu	Thr	Ile	Cys	His	Val	Ile	Asp	Ala	Lys	Ser	Pro	
137		265					270					275					-
138																	
139						CAG											916
140	Phe	Tyr	Asp	Leu	Ser	Gln	Arg	Ser	Met	Gln	Thr	Glu	Gln	Phe	Glu	Val	
141	280					285					290				•	295	
142																	
143						GGC											964
144	Val	Val	Ile	Leu	Glu	Gly	Ile	Val	Glu		Thr	Gly	Met	Thr	Cys	Gln	
145					300					305					310		
146				•													
147						ACC											1012
148	Ala	Arg	Thr		Tyr	Thr	Glu	Asp		Val	Leu	Trp	Gly		Arg	Phe	
149				315					320					325			
150																	

DATE: 08/06/1999 TIME: 18:23:35

INPUT	SET:	S32821.	raw
-------	------	---------	-----

														<b>I</b> /	<b>VPUT</b>	SET: S	32821	.raw
151	TTC	CCT	GTA	ATT	TCT	TTA	GAA	GAA	GGA	TTC	TTT	AAA	GTC	GAT	TAC	TCC	1060	
152															Tyr			
153			330					335				-	340	-	-			
154																		
155	CAG	TTC	СУП	CCA	ACC	արար	GAA	GTC	כככ	ACC	CCT	CCG	TAC	AGT	GTG	AAA	1108	
156															Val			
157	GIII	345	HIS	мта	1111	File	350	Val	110	1111	110	355	- 7 -	DC.	• • • •	<b>1</b> ,5		
		343					330					333						
158	030	a.a	<b>733</b>	<b>a</b>	» ma	amm	OTTO	N TIC	mam	maa	COT	TTT A	אידיא	CCA	CCA	GCC	1156	
159																	1130	
160		GIN	GIU	GIU	мес		Leu	Met	Ser	Set		rea	TTG	мта	Pro	375		
161	360					365					370					3/3		
162						~		~~~		mam	ama	~~~	maa	mma	a a m	aa s	1204	
163																GGA	1204	
164	TTE	Thr	Asn	Ser		GIU	Arg	HIS	ASN		vaı	GIU	Cys	Leu	Asp	СТА		
165					380					385					390			
166																		
167																ACG	1252	
168	Leu	Asp	Asp		Ser	Thr	Lys	Leu		Ser	Lys	Leu	GTn		Ile	Thr		
169				395					400					405				
170																		
171																ACT	1300	
172	Gly	Arg	Glu	Asp	Phe	Pro	Lys	Lys	Leu	Leu	Arg	Met	Ser	Ser	Thr	Thr		
173			410					415					420					
174																		
175																CGA	1348	
176	Ser	Glu	Lys	Ala	Tyr	Ser	Leu	Gly	Asp	Leu	Pro	Met	Lys	Leu	Gln	Arg		
177		425					430					435						
178																		
179																ACC	1396	
180	Ile	Ser	Ser	Val	Pro	Gly	Asn	Ser	Glu	Glu	Lys	Leu	Val	Ser	Lys	Thr		
181	440					445					450					455		
182																		
183																CCA	1444	
184	Thr	Lys	Met	Leu	Ser	Asp	Pro	Met	Ser	Gln	Ser	Val	Ala	Asp	Leu	Pro		
185					460					465					470			
186																		
187																AAT	1492	
188	Pro	Lys	Leu	Gln	Lys	Met	Ala	Gly	Gly	Pro	Thr	Arg	Met	Glu	Gly	Asn		
189				475					480					485				
190																		
191	CTT	CCA	GCC	AAA	CTA	AGA	AAA	ATG	AAC	TCT	GAC	CGC	TTC	ACA			1534	
192				Lys														
193			490	-		-	-	495			_	_	500					
194																		
195	TAG	CAAA	ACA (	cccci	ATTA	GG C	ATTAT	rttc <i>i</i>	A TG	rttt	TTAE	TAG	rttt <i>i</i>	AGT	CCAA	TATTT	3	1594
196						•		_										
197	GCT	GATA	AGA '	raat(	CCTC	cc cc	GGA/	AATC'	r GA	GAGG'	CTA	TCC	CAGTO	CTG	GCAA	ATTCA!	r	1654
198			- '															
199	CAG	AGGA	CTC '	TTCA	TTGA	AG TO	GTTG'	TTAC'	r GT	GTTG <i>i</i>	AACA	TGAG	STTAC	CAA	AGGG	AGGAC	A	1714
200		1				'												•
201	TCAT	TAAG	AAA (	GCTA	ATAG	rr go	CATO	TAT	г атс	CACAT	CAA	GCA.	rgca/	ATA	ATGT	GCAAA'	r	1774
202			<b>-</b>															
203	тттс	GCATT	TTA (	<b>3</b> ጥጥጥ	rctg	GC AT	rgati	ГТАТ	A TAT	rggc <i>i</i>	TAT	TTA	ГАТТ	GAA	TATT	CTGGA	A.	1834

#### RAW SEQUENCE LISTING PATENT APPLICATION US/09/039,927

DATE: 08/06/1999 TIME: 18:23:35

#### INPUT SET: S32821.raw AAATATATAA ATATATTT GAAGTGGAGA TATTCTCCCC ATAATTTCTA ATATATGTAT TAAGCCAAAC ATGAGTGGAT AGCTTTCAGG GCACTAAAAT AATATACATG CATACATACA TACATGCATA TGCACAGACA CATACACACA CATACTCATA TATATAAAAC ATACCCATAC AAACATATAT ATCTAATAAA AATTGTGATG TTTTGTTCAA AAAAAAAAA AAAAAACTCG AG

### **SEQUENCE VERIFICATION REPORT** PATENT APPLICATION *US/09/039,927*

DATE: 08/06/1999 TIME: 18:23:35

INPUT SET: S32821.raw

Line

Error

Original Text